

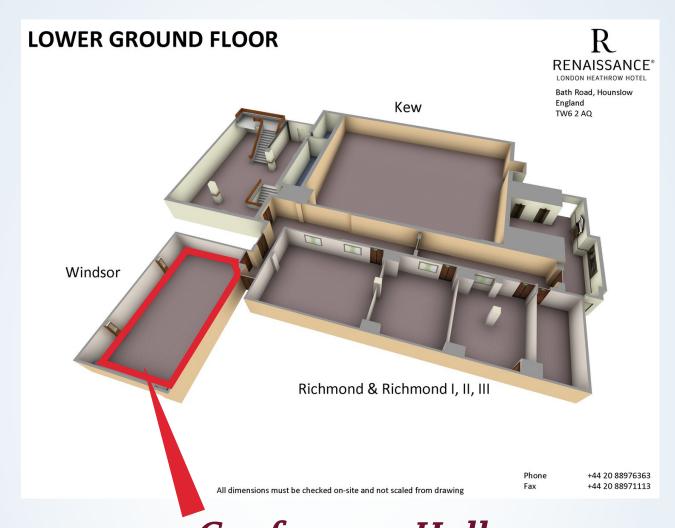


5<sup>th</sup> International Conference on

#### **BIOMATERIALS & BIODEVICES**

October 14-15, 2024 | London, UK

# Floor Map







#### Wi-Fi Details:

**Username:** Marriott Guest

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# Conference Program

#### **Scientific Program**

5<sup>th</sup> International Conference on

### **Biomaterials & Biodevices**

	Day 1 – October 14, 2024	
Meeting Hall : Windsor Suite		
08:00 -08:45	Registrations	
08:45 - 09:00	Introduction	
	Keynote Presentations	
09:00 - 9:40	Protective Nanocoatings from Polyelectrolytes: Flame Retardancy, Heat Shielding, and Super Gas Barrier	
	Jaime C. Grunlan, Texas A&M University, USA	
09.40 - 10.20	Fully Bioresorbable Polymeric Scaffolds for Treatment of Peripheral and Coronary Diseases: Current Developments and Future Perspectives	
	Kadem Al-Lamee, Arterius Limited, United Kingdom	
	Networks & Refreshments (10.20 - 10.40) @York Lobby	
10:40 - 11:20	Advanced Carbon Based Materials via Sustainable Synthetic Procedure for Sensing and Environmental Applications	
	Claudia Espro, University of Messina, Italy	
	Oral Presentations	
Session chair	Jaime C. Grunlan, Texas A&M University, USA	
Session chair	Kadem Al-Lamee, Arterius Limited, United Kingdom	
Sessions:	Functional Hybrid Materials   Applications of Biomaterials   Carbon Based Materials   Biomimetic Materials   Bio-inspired Intelligent Biomaterials   Biomaterials in Drug Delivery Systems   Functional Materials, Synthesis and Characterizations   Advanced materials and Applications   Biomaterials & Nano technology   Biodevices and Biomedical Optics   Functional Materials   Energy Materials   Micro or Nano Materials   Biomaterials   Hydrogels   Sustainable Materials	
11 20 11 45	From Biomimicry to Architecture: The Future of Responsive Shading	
11.20 - 11.45	Maria João de Oliveira, ISCTE – Instituto Universitário de Lisboa, Portugal	
11.45 - 12.10	Synthesis of Functionalized Chitosan Polymeric Nanoparticles and their Properties for Controlled Drug Release	
	Nekane Martin, I+Med S.Coop., EHU/UPV, Spain	
12.10 - 12.35	Investigation on Corrosive Degradation of the Thermally Sprayed TiNbMoMnFe High Entropy Alloy Coatings in Simulated Body Fluid	
	Deepak Kumar, Indian Institute of Technology Delhi (IIT Delhi), India	
12.35 - 13.00	The Impact of Metal Dots on Time-Resolved Luminescence of Aero-GaN	
12.00	Tudor Braniste, Technical University of Moldova, Moldova	
	Group Photo (13.00 - 13.15)	
	Lunch (13.15 - 14.00) @Market Garden Restaurant	
14.00 - 14.25	Machine Learning-Accelerated Analysis Synthesized the Characteristics of CaCO <sub>3</sub> Particles with the Methods of Microwave, Ultrasonic, and Magnetic Steering, as well as their Possible Applications	
	Junnan Song, Ghent University, Belgium	

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14.25 - 14.50	Advancing Uniform Stochastic Design in Photomatrix Therapeutic Systems
	Oleg Karaduta, University of Arkansas for Medical Sciences, USA
14.50 - 15.15	Green Carbon-Based Nanomaterials with Advanced Properties for Environmental Applications
	Viviana Bressi, University of Messina, Italy
15.15 - 15.40	SEWAT - Sustainable Energy by Waves Trap
	Giulio Teodoro Maellaro, Geco -Global Engineering Constructions S.R.L. , Italy
15.40 - 16.05	Dual-Action Coatings for Implant Failure Prevention in Temporary Magnesium-Based Orthopaedic Implants
	Isabel Sousa, DEMaC/CICECO, University of Aveiro, Portugal
	Networks & Refreshments (16.05 - 16.30) @York Lobby
	Poster Presentations @ 16:30 - 18:00
Poster Judge	Kadem Al-Lamee, Arterius Limited, United Kingdom
PP-01	Experimental and Computational Studies of Crystal Violet Removal from Aqueous Solution using Sulfonated Graphene Oxide
	Olayinka Oluwaseun Oluwasina, The Federal University of Technology Akure, Nigeria
PP-02	Development of a Critical Time-Temperature Indicators (cTTI) using Thermosensitive Copolymers with Tunable LCST
	Seung Won Jung, Dongguk University, South Korea
DD 03	From Sea Urchins Waste to Tissue Regeneration: Innovative Composite Biomaterials
PP-03	Giordana Martinelli, University of Milan, Italy
PP-04	Comparative Evaluation of Sea Urchin Waste as a Sustainable Source of Bioactive Collagen-Based Biomaterials
	Margherita Roncoroni, University of Milan, Italy
DD OF	Flexible Thermoelectrics based on 3D Interconnected Magnetic Nanowire Networks
PP-05	Luc Piraux, UCLouvain, Belgium
PP-06	Tuning the Structure-Functional Relationship within Peptide-Mimicking Antimicrobial Hydrogels
	Samuel Attard, University of New South Wales, Australia
PP-07	Categorizing/Testing Biomaterials, A Major Challenge for Valeo Lighting Systems / Light Division
	Laurent Barre, Valeo Lighting Systems, France
PP-08	Food-Based Biomaterials: p <sup>H</sup> -Responsive Alginate/Gellan Gum/Cellulose Hydrogel Beads for Lactoferrin Delivery
	Lin Cao, Ghent University, Belgium
PP-09	Study of Ceramic Coatings as a Novel Radiation Receiver on Furnace Building Material using Thermal Spraying Technique
	Wu-Han Liu, Industrial Technology Research Institute, Taiwan
	Day 1 Concludes followed by Certificate Felicitation

#### **Scientific Program**

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## **Biomaterials & Biodevices**

	Day 2 - October 15, 2024	
	Meeting Hall : Windsor Suite	
	Keynote Presentations	
9.30 - 10.10	Nickel-Zinc Ferrite and Graphene Nanoplatelet-Enhanced Epoxy Hybrid Nanocomposites	
	Sahrim Ahmad, Universiti Kebangsaan Malaysia, Malaysia	
10.10 - 10.50	An Environment-Friendly Na <sub>0.4</sub> K <sub>0.1</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Ceramic for Direct Replacement of PZT-Based Ceramics in Multiple Applications	
	Ajit R. Kulkarni, Indian Institute of Technology-Bombay (IIT Bombay), India	
	Networks & Refreshments (10.50 - 11.15) @York Lobby	
Oral Presentations		
Session chair	Ajit R. Kulkarni, Indian Institute of Technology-Bombay (IIT Bombay), India	
Session chair	Kadem Al-Lamee, Arterius Limited, United Kingdom	
Sessions:	Advanced Functional Materials   Functional Materials   Hydrogels   Biodegradable Biomaterials   Thin Films   3D Bio Printing Technology   Biosensors & Biorobotics	
	Chemically Identical Hydrogels with Distinct Mechanical Properties	
11.15 - 11.40	<b>Xingjian Sun,</b> Shenzhen Institute of Advanced Technology & Chinese Academy of Sciences, China	
11.40 - 12.05	Exploring the Potential of CsPbBr <sub>3</sub> Perovskite Solar Cells: Experimental and Theoretical Investigations	
	Amina Laouid, Nicolaus Copernicus University in Torun, Poland	
12.05 - 12.30	4D Printed Piezoelectric Bilayer Wound Dressing Mesh to Accelerate Skin Wound Healing	
	Gholamreza Mohammadi Khounsaraki, Institute of Materials Research, Slovakia	
12.30 - 12.55	Advancements in Fiber Optic Biosensors for Real-Time Glucose Monitoring	
12.30 - 12.35	Pallavi Dhillon, Shen Clinical Services LLP, India	
12.55 - 13.20	Membrane Separation Technology in Direct Air Capture	
	Naiying Du, National Research Council of Canada (NRC), Canada	
	Lunch (13.20 - 14.30) @Market Garden Restaurant	
14.30 - 14.55	Preparation, Function, and Safety Evaluation of a Novel Degradable Dermal Filler, The Cross-Linked Poly-Γ-Glutamic Acid Hydrogel Particles	
	Mian Chen, Shandong Academy of Pharmaceutical Sciences, China	
14.55 - 15.20	Address on the Country of Landle and the Linear and the Ninear and the country of	
14.55 - 15.20	Microwave-Synthetized Lanthanide Upconversion Nanoparticles: Light Nanotransducers for Biomedical Applications.	

#### Tuesday October 15, 2024

#### Scientific Program

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#### **Biomaterials & Biodevices**

15.20 - 15.45	Biopolymer Based in Situ Injectable Hydrogels Loaded with Curcumin Nanocrystals for Bone Tissue Engineering, (HydroBoneReg)  Syed Ahmed Shah, Institute of Fundame, Poland
15.45 - 16.10	To be announced

Networks & Refreshments (16:10- 16:30) @York Lobby

Day 2 Concludes followed by Vote of thanks and Certificate Felicitaions



#### Bookmark The Dates

6<sup>th</sup> International Conference on

### **Biomaterials & Biodevices**

October 09-10, 2025 | Prague, Czech Republic



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